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| APPLICATION NO                       |         | FILING DATE  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.    | CONFIRMATION NO. |
|--------------------------------------|---------|--------------|----------------------|------------------------|------------------|
| 09/844,242                           |         | 04/27/2001   | Jason N. Morgan      | 56110.US               | 1423             |
| 24504                                | 7590    | 09/21/2004   |                      | EXAMINER               |                  |
|                                      |         | DEN, HORSTEM | ZHENG, EVA Y         |                        |                  |
| 100 GALLERIA PARKWAY, NW<br>STE 1750 |         |              |                      | ART UNIT               | PAPER NUMBER     |
|                                      | A, GA 3 | 30339-5948   |                      | 2634                   |                  |
|                                      |         |              |                      | DATE MAILED: 09/21/200 | 4                |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  | Application No.  | Applicant(s)   | _ |  |  |  |
|---|--|--|--|---|--|--|--|
|   |  | 09/844,242   | MORGAN ET AL.  |   |  |  |  |
| Office Action Summary                         |  | Examiner   | Art Unit   | _ |  |  |  |
|   | •  | Eva Yi Zheng   | 2634   |   |  |  |  |
|   | The MAILING DATE of this communication   | appears on the cover sheet w   | th the correspondence address  | _ |  |  |  |
| THE - Exte after - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR RI MAILING DATE OF THIS COMMUNICATION moions of time may be available under the provisions of 37 Cf SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, preform of the provision | ON. FR 1.136(a). In no event, however, may a r. n. a reply within the statutory minimum of thin eriod will apply and will expire SIX (6) MON statute, cause the application to become AE | eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133). |   |  |  |  |
| Status  |  |  |  |   |  |  |  |
|   | Responsive to communication(s) filed on 2 This action is <b>FINAL</b> . 2b) Since this application is in condition for all closed in accordance with the practice unc  | This action is non-final.  owance except for formal matt   | •  |   |  |  |  |
| Disposit                                      | ion of Claims  |  |  |   |  |  |  |
| 5)⊠<br>6)⊠<br>7)□                             | Claim(s) 1-21 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 1-20 is/are allowed.  Claim(s) 21 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.  |  |  |   |  |  |  |
| Applicat                                      | ion Papers   |  |  |   |  |  |  |
| 10)⊠  | The specification is objected to by the Example The drawing(s) filed on 27 April 2001 is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the countries of the oath or declaration is objected to by the   | e: a)  accepted or b)  object<br>the drawing(s) be held in abeyar<br>prrection is required if the drawing  | ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).   |   |  |  |  |
| Priority (                                    | under 35 U.S.C. § 119  |  |  |   |  |  |  |
| 12)□<br>a)                                    | Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Business of the attached detailed Office action for a   | nents have been received.<br>nents have been received in A<br>priority documents have been<br>ireau (PCT Rule 17.2(a)).  | pplication No received in this National Stage  |   |  |  |  |
| 2) D Notic<br>3) D Infor                      | et(s)  ce of References Cited (PTO-892)  ce of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SI  or No(s)/Mail Date  | ) Paper No(s   | Summary (PTO-413)<br>S)/Mail Date<br>nformal Patent Application (PTO-152)<br>  |   |  |  |  |

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## **DETAILED ACTION**

## **Drawings**

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show / label: "DC remover, threshold detector, microprocessor, and memory" in Fig. 1; "phase detector, local sample clock, processor, and memory" in Fig. 5 as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Janesch et al. (US 6,018,556).

Regarding claim 21, Janesch et al. disclose a method of adaptively adjusting timing loop parameters of a timing loop that is being used to synchronize a local clock frequency to a received signal, said method comprising the step of determining a frequency error between said local clock and said received signal and modifying said timing loop parameters based upon said frequency error. (as shown in Fig. 2; Col 6, L16-51)

4. Claim 21 is rejected under 35 U.S.C. 102(a) as being anticipated by applicant admitted prior art (AAPA).

Regarding claim 21, AAPA discloses a method of adaptively adjusting timing loop parameters of a timing loop that is being used to synchronize a local clock frequency to a received signal, said method comprising the step of determining a frequency error between said local clock and said received signal and modifying said timing loop parameters based upon said frequency error. (Background of the invention, L16-28)

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Allowable Subject Matter

5. Claims 1-20 are allowed.

6. The following is an examiner's statement of reasons for allowance:

None of the prior teaches or suggests a method for adapting a timing loop having timing loop parameters to an environment having a broad range of frequency errors, the method comprising the steps of: setting the timing loop parameters of the timing loop to initial values; waiting a predetermined interval of time; measuring a frequency error between a receiver's clock signal and a received data signal; determining an average value of the frequency error; subtracting the average value of the frequency error from the frequency error to produce a difference value; and resetting the timing loop parameters to new timing loop parameter values if the difference value is less than a threshold value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Yi Zheng whose telephone number is (571) 272-3049. The examiner can normally be reached on 7:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number

for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Eva Yi Zheng Examiner

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September 16, 2004

PRIMARY EXAMINER

Short